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Figure 1.

Fig 1A.

AGTAACACTTATCTCAAAGGAGTAGACATGAAGAAAAAATTATTGGCAGGTG CCATCACACTATTATCAGTAGCAACTTTAGCAGCTTGTTCGAAAGGGTCAGAAGGTG CAGACCTTATCAGCATGAAAGGGGATGTCATTACAGAACATCAATTTTATGAGCAAG TGAAAAGCAACCTTCAGCCCAACAAGTCTTGTTAAATATGACCATCCAAAAAGTTT TTGAAAAACAATATGGCTCAGAGCTTGATGATAAAGAGGTTGATGATACTATTGCCG **AAGAAAAAAACAATATGGCGAAAACTACCAACGTGTCTTGTCACAAGCAGGTATGA** CTCTTGAAACACGTAAAGCTCAAATTCGTACAAGTAAATTAGTTGAGTTGGCAGTTA **AGAAGGTAGCAGAAGCTGAATTGACAGATGAAGCCTATAAGAAAGCCTTTGATGAGT ACACTCCAGATGTAACGGCTCAAATCATCCGTCTTAATAATGAAGATAAGGCCAAAG AAGTTCTCGAAAAAGCCAAGGCAGAAGGTGCTGATTTTGCTCAATTAGCCAAAGATA ATTCAACTGATGAAAAAACAAAAGAAAATGGTGGAGAAATTACCTTTGATTCTGCTT** CAACAGAAGTACCTGAGCAAGTCAAAAAAGCCGCTTTCGCTTTAGATGTGGATGGTG TTTCTGATGTGATTACAGCAACTGGCACACAAGCCTACAGTAGCCAATATTACATTG TAAAACTCACTAAGAAAACAGAAAAATCATCTAATATTGATGACTACAAAGAAAAAT TAAAAACTGTTATCTTGACTCAAAAACAAAATGATTCAACATTTGTTCAAAGCATTA TCGGAAAAGAATTGCAAGCAGCCAATATCAAGGTTAAGGACCAAGCCTTCCAAAATA TCTTTACCCAATATATCGGTGGTGGAGATTCAAGCTCAAGCAGTAGTACATCAAACG AA

Fig 1B.

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SNTYLKGVDMKKKLLAGAITLLSVATLAACSKGSEGADLISMKGDVITEHQF
YEQVKSNPSAQQVLLNMTIQKVFEKQYGSELDDKEVDDTIAEEKKQYGENYQRVLSQ
AGMTLETRKAQIRTSKLVELAVKKVAEAELTDEAYKKAFDEYTPDVTAQIIRLNNED
KAKEVLEKAKAEGADFAQLAKDNSTDEKTKENGGEITFDSASTEVPEQVKKAAFALD
VDGVSDVITATGTQAYSSQYYIVKLTKKTEKSSNIDDYKEKLKTVILTQKQNDSTFV
OSIIGKELQAANIKVKDQAFQNIFTQYIGGGDSSSSSSTSNE

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Express Mail No: EL709114327US Inventor: de Groot, et al. Title: Pneumococcal Vaccines Our Docket No: 294-120 PCT/US

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## Pigure 2

mkkkmrlkvllastatallllsgcqsnqadqkvatysggkvtesnfykelkq spttktmlanmliyralnhaygksvstktvndaydsykqqygenfdaflsqngfsrs sfkeslrtnflsevalkklkkvsesqlkavwktyqpkvtvqhiltsdedtakqvisd laagkdfatlaktdsidtatkdnggkisfesnnktldatfkdaayklkngdytqtpv kvtngyevikminhpakgtftsskkaltasvyakwsrdssimqrvisqvlknqhvti kdkdladaldsykkpattn

## Figure 3

mkkkmrlkvllastatallllsgcqsnqtdqtvatysggkvtessfykelkq spttktmlanmliyralnhaygksvstktvndaydsykqqygenfdaflsqngfsrs sfkeslrtnflsevalkklkkvsesqlkaawktyqpkvtvqhiltsdedtakqvisd laagkdfamlaktdsidtatkdnggkisfelnnktldatfkdaayklkngdytqtpv kvtdgyevikminhpakgtftsskkaltasvyakwsrdssimqrvisqvlknqhvti kdkdladaldsykklattn

## Figure 4

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mkkkmrlkvllastatallllsgcqsnqtdqtvatysggkvtesslykelkq spttktmlanmliyralnhaygksvstktvndaydsykqqygenfdaflsqngfsrs sfkeslrtnflsevalkklkkvsesqlkaawktyqpkvtvqhiltsdedtakqvisd laagkdfamlaktdsidtatkdnggkisfelnnktldatfkdaayklkngdytqtpv kvtdgyevikminhpakgtftsskkaltasvyakwsrdssimqrvisqvlknqhvti kdkdladaldsykklattn